

REGION VII SUPERFUND SITE PRE-CERCLIS SCREENING FORM

I. SITE NAME AND LOCATION:		
NAME: Arnette Limited, Inc. (Arnette Fire Site)		
ADDRESS OR OTHER LOCATION IDENTIFIER: 1002 West Main Street		
CITY: Richmond	STATE: Missouri	ZIP: 64085
DIRECTIONS TO SITE: From Kansas City, take State Route 210. Go east on State Route MO-210 for about 34 miles, then turn north on State Route MO-10. Follow MO-10 for about 1.5 miles, then turn east on MO-10 Business Route. The site is located approximately 2.3 miles east on MO-10 Business Route (West Main Street) on the south side of the street.		
MAP ATTACHED: See Figure 1 with Emergency Response Report		
II. PROGRAM CONTACTS:		
REQUESTED BY: Eddie McGlasson		DATE OF REQUEST: June 24, 2007
AGENCY/OFFICE: Environmental Protection Agency/Region 7 Superfund Division		
MAILING ADDRESS: 901 N 5 th Street		
CITY: Kansas City	STATE: Kansas	ZIP: 66101
TELEPHONE: (913) 551-7756	FAX: (913) 551-7948	
EVALUATOR: Kumud Pyakuryal		
AGENCY/OFFICE: Tetra Tech EMI		
MAILING ADDRESS: 415 Oak Street		
CITY: Kansas City	STATE: Missouri	ZIP: 64106
TELEPHONE: (816) 412-1778	FAX: (816) 410-1748	
III. SITE INFORMATION:		
TYPE OF FACILITY: Chemical manufacturing	TYPE OF OWNERSHIP: Commercial	
OWNER/OPERATOR INFORMATION: Arnette Limited, Inc., 1002 West Main Street, Richmond, Missouri 64085. Phone: (816) 776-3005. Contact: Gary Arnette		
SITE STATUS (active/inactive): Active	YEARS OF OPERATION: Unknown	
OPERATIONAL HISTORY: (How was the site identified?) Arnette is a chemical manufacturing company (synthetic rubber, polyurethane spray foam, etc.). The fire started in mid-afternoon on June 24, 2007, and was reported to the U.S. Environmental Protection Agency (EPA) emergency response hotline. The cause of the fire was unknown; however, it was believed to have started in a trailer containing several 55-gallon drums of various resins, epoxies, and solvents. At 1500 hours on June 24, 2007, the Tetra Tech Superfund Technical Assessment and Response Team (START) was tasked by EPA Region 7 to conduct air monitoring at the site, assess threats to surface water and sewer systems, and document response activities.		



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IV. PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISIONS

(Criteria from "Improving site Assessment: Pre-CERCLIS Screening Assessments", OSWER Directive #9375.2-11FS, EPA-540-F-98-039, PB98-963310, October 1999)

1. Does the site already appear in CERCLIS? YES ☐ or NO ☒

(If YES, this Form may be inappropriate to document site decisions, i.e., a CERCLA PA (at a minimum) is required.)

2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures? YES ☐ or NO ☒

(If YES, then explain in Section V.)

3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or solely through naturally occurring processes or phenomena, from a location where it is naturally found? YES ☐ or NO ☒

(If YES, then explain in Section V.)

4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use? YES ☐ or NO ☒

(If YES, then explain in Section V.)

5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?

YES ☒ or NO ☐

(If YES, then explain in Section V.)

6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?

YES ☐ or NO ☒

(If YES, then explain in Section V.)

7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)? YES ☐ or NO ☒

(If YES, then explain in Section V.)

Check one, either 8.a or 8.b, whichever applies

8. a. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)? YES ☐ or NO ☐

(Explain in Section V.)

8. b. Based on limited sampling that has been performed at/near the site in conjunction with Pre-CERCLIS Screening Assessment, is there a potential for a release that could cause adverse environmental or human health impacts? YES ☒ or NO ☐

(Explain in Section V.)

Yes -> Explain in the following Sections whether or not a CERCLA response action (CERCLIS entry) is warranted.

No -> No CERCLIS entry is warranted. Explain in the following Sections.

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V. SUPERFUND SITE SCREENING CRITERIA
A. REMEDIAL CRITERIA
1. SOURCE AND WASTE CHARACTERISTICS
KNOWN OR SUSPECTED SOURCE TYPES AND LOCATIONS: Aboveground storage tanks (AST), 55-gallon drums, totes, and other chemical containers.
SIZE OF SOURCES AND QUANTITIES (Volume, Area): The exact quantity is unknown. However, resins, epoxies, and solvents remain on site in various containers.
WASTE TYPES OR HAZARDOUS SUBSTANCES KNOWN OR SUSPECTED TO BE PRESENT: Solvents, resins, and epoxies.
2. GROUND WATER PATHWAY:
What is the likelihood that a release to groundwater has occurred at the site? Most chemical materials released during this incident are suspected to have been consumed by the fire. Residual substances in surface soils and runoff are not suspected to have impacted groundwater.
If a release is not suspected proceed to A.3.
a. USE AND CHARACTERISTICS:
GENERAL STRATIGRAPHY AND HYDROLOGY:
PRESENCE OF KARST TERRAIN:
DEPTH TO SHALLOWEST AQUIFER:
PRIVATE WELLS WITHIN 4 MILES (locations and population served):
MUNICIPAL WELLS WITHIN 4 MILES (locations and population served):
DISTANCE TO NEAREST DRINKING WATER WELL:
WELLHEAD PROTECTION AREAS:
3. SURFACE WATER PATHWAY:
What is the likelihood that a release to surface water has occurred at the site? Runoff from fire-fighting activities traveled to an unnamed creek adjacent to (east of) the facility. Indications of runoff were visible in the unnamed creek near the site; however, no impact was observed downstream of the site during a reconnaissance conducted by EPA and MDNR.
If a release is not suspected proceed to A.4.
a. USE AND CHARACTERISTICS:
FLOOD FREQUENCY: Unknown
DISTANCE TO NEAREST SURFACE WATER: Adjacent to the facility.
SURFACE WATER BODIES WITHIN 15 DOWNSTREAM MILES: An unnamed creek, adjacent to the site which received the drainage from the site travels south for approximately 1.5 miles from the probable point of entry (PPE) before it enters Willow Creek. Willow Creek then enters the Missouri River approximately 8 miles southeast of its confluence with the unnamed creek. The remainder of the 15-mile target distance limit lies within the Missouri River.
DESIGNATED AND/OR PROTECTED USES OF SURFACE WATER BODIES: Warm water resources designated by the Missouri Surface Water Standards; recreational

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DRINKING WATER INTAKES WITHIN 15 DOWNSTREAM MILES (locations and populations served): Unknown
FISHERIES WITHIN 15 DOWNSTREAM MILES: West Fork Creek, the Crooked River, and Missouri River
KNOWN OR POTENTIAL SENSITIVE ENVIRONMENTS AND WETLANDS WITHIN 15 DOWNSTREAM MILES: Multiple wetlands and surface water segments subject to recreational use.
4. SOIL EXPOSURE PATHWAY:
What is the likelihood of exposure to hazardous substances at the site? Some chemical materials involved in the fire are suspected to have been released to surface soils.
a. CHARACTERISTICS:
NUMBER OF PEOPLE LIVING WITHIN 200 FEET: 0
SCHOOLS OR DAY-CARES WITHIN 200 FEET: None identified
POPULATIONS WITHIN 1 MILE: Approximately 3,454
NUMBER OF WORKERS AT THE FACILITY OR ADJACENT FACILITIES WHOSE CONTAMINATION IS SUSPECTED: Greater than 10
LOCATIONS OF KNOWN OR POTENTIAL TERRESTRIAL SENSITIVE ENVIRONMENTS: Unknown
5. AIR PATHWAY:
What is the likelihood that a release of hazardous substances is migrating from the site to the air? It is likely that hazardous substances were released to ambient air during the fire; however, no significant release was identified by Tetra Tech START on June 24, 2007, during real-time air monitoring conducted after the fire had been extinguished.
If a release is not suspected proceed to B.
a. CHARACTERISTICS
POPULATIONS WITHIN 4 MILES:
DISTANCE TO NEAREST INDIVIDUAL:
LOCATIONS OF KNOWN OR POTENTIAL SENSITIVE ENVIRONMENTS WITHIN 0 TO 1/4 MILE AND 1/4 TO 1/2 MILE:
B. REMOVAL CRITERIA
IS THERE A RELEASE AS DEFINED BY THE NCP? YES <input checked="" type="checkbox"/> or NO <input type="checkbox"/>
EXPLAIN: Chemical materials were released from ASTs, drums, totes, and other containers during the fire. Additional chemicals remained in various containers, many of which were in poor condition.
<i>(A RELEASE is defined as any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment of barrels, containers, and other closed receptacles containing any hazardous substances or pollutant or contaminant), but excludes: workplace exposures; engine exhaust emissions; nuclear releases otherwise regulated; and the normal application of fertilizer. For purposes of the NCP, release also means threat of release.[40 CFR 300.410(e)])</i>

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B. REMOVAL CRITERIA (continued):

IS THE SOURCE A FACILITY OR VESSEL AS DEFINED BY THE NCP?

YES ☒ or NO ☐

EXPLAIN: The property where the fire occurred is a facility as defined by the NCP.

(A FACILITY is defined as any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or POTW), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft or any site or area, where a hazardous substance has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel. A VESSEL is defined as any description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water other than a public vessel. [40 CFR 300.410(e)])

DOES THE RELEASE INVOLVE A HAZARDOUS SUBSTANCE, POLLUTANT OR CONTAMINANT AS DEFINED BY THE NCP?

YES ☒ or NO ☐

EXPLAIN:

(A HAZARDOUS SUBSTANCE means any substance, element, compound, mixture, solution, hazardous waste, toxic pollutant, hazardous air pollutant, or imminently hazardous chemical substance or mixture designated pursuant to the CWA, CERCLA, SDWA, CAA or TSCA. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas. The definition of POLLUTANT or CONTAMINANT includes, but is not limited to, any element, substance, compound, or mixture, including disease-causing agents, which after release into the environment and upon exposure, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions or physical deformations, in such organisms or their offspring. The term does not include petroleum products, natural gas, natural gas liquids, liquefied natural gas, synthetic gas or mixtures of natural and synthetic gas.). [40 CFR 300.410(e)]

IS THE RELEASE SUBJECT TO THE LIMITATIONS ON RESPONSE?

YES ☐ or NO ☒

EXPLAIN: No limitations on response apply.

(The LIMITATIONS ON RESPONSE provisions of the NCP (40 CFR 300.400(B) states that removals shall not be undertaken in response to a release: of a naturally occurring substance in its unaltered or natural form; from products that are a part of the structure of, and result in exposure within, residential buildings or business or community structures; or into public or private drinking water supplies due to deterioration of the system through ordinary use.). [40 CFR 300.410(e)]

DOES THE QUANTITY OR CONCENTRATION WARRANT RESPONSE?

YES ☒ or NO ☐

EXPLAIN: A release of CERCLA hazardous substances likely impacted surface soils, and runoff from the site occurred—perhaps to a degree warranting followup response to address appropriate disposal of impacted media.

[40 CFR 300.410(e)]

HAS A PRP BEEN IDENTIFIED? (Include name, address and telephone number)

YES ☒ or NO ☐

Property Owner:

Arnette Limited, Inc.
1002 West Main Street
Richmond, Missouri 64085
Phone: (816) 776-3005

[40 CFR 300.410(e)]

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B. REMOVAL CRITERIA (continued):

IS THERE AN ACTUAL OR POTENTIAL EXPOSURE TO HAZARDOUS SUBSTANCES OR POLLUTANTS, OR CONTAMINANTS? YES ☒ or NO ☐

EXPLAIN: Solvents and other chemical materials suspected to contain hazardous substances had been reportedly stored at the site and were involved in the fire.

IS THERE ACTUAL OR A POTENTIAL FOR CONTAMINATION OF DRINKING WATER SUPPLIES? YES ☐ or NO ☒

EXPLAIN: No potential for contamination of drinking water supplies is believed to exist.

ARE THERE HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS IN DRUMS, BARRELS, OR BULK STORAGE CONTAINERS? YES ☒ or NO ☐

EXPLAIN: Several ASTs are on the site, along with 55-gallon drums, totes, and other bulk storage containers.

ARE THERE HIGH LEVELS OF HAZARDOUS SUBSTANCES, POLLUTANTS, OR CONTAMINANTS IN NEAR-SURFACE SOILS? YES ☒ or NO ☐

EXPLAIN: Hazardous substances are suspected to have been released to surface soils as a result of the fire.

("High levels" may be determined by streamlined risk assessments, health consultations, state or federal soil screening criteria, and/or Superfund program policies or directives.)

ARE THERE CONDITIONS ON SITE WHICH MAY BE SUSCEPTIBLE TO IMPACT FROM ADVERSE WEATHER CONDITIONS? YES ☒ or NO ☐

EXPLAIN: Most fire-fighting water appeared to have been contained to the site and nearby areas; however, heavy rainfall could have promoted off-site migration of contaminated runoff.

IS THERE A THREAT OF FIRE OR EXPLOSION? YES ☒ or NO ☐

EXPLAIN: Flammable and combustible chemical materials had been stored at the site.

IS THERE A POTENTIAL FOR OTHER FEDERAL OR STATE RESPONSE MECHANISMS? IF SO, IDENTIFY THE APPROPRIATE PROGRAM: YES ☒ or NO ☐

☐ RCRA ☐ NRC ☐ FIFRA ☐ UST ☐ OTHER FEDERAL (____) ☒ STATE DEFERRAL

EXPLAIN: The Missouri Department of Natural Resources (MDNR) provided oversight and guidance during response and cleanup activities.

ARE THERE OTHER SITUATIONS OR FACTORS WHICH WARRANT FURTHER SUPERFUND RESPONSE? YES ☐ or NO ☒

EXPLAIN: No such conditions have been identified.

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VI. SUPERFUND SITE SCREENING FINDINGS AND RECOMMENDATIONS:							
NO FURTHER SUPERFUND RESPONSE ACTION REQUIRED - SUPERFUND CERCLIS ENTRY NOT WARRANTED							
(Cite the appropriate criteria from SECTION V as the basis for the above determination.)							
Yes	No	Unknown	Issue	Yes	No	Unknown	Issue
			Ground Water Pathway Threat				Direct Exposure Pathway Threat
			Surface Water Pathway Threat				Air Pathway Threat
			Release Or Threat Of Release				A Facility Or Vessel
			Hazardous Substance, Pollutant, or Contaminant				Subject To Response Limitations
			Contaminants present in Significant Quantity And/OR Concentration				Exposure To Hazardous Substances Or Pollutants Or Contaminants
			Drums, Barrels Or Bulk Containers Present				High Levels Of Contaminants In Surface Soils
			Site Susceptible To Adverse Weather Conditions				Threat Of Fire Or Explosion
			Willing/Capable PRP Response				Referred To Another Program
COMMENT:							
REMOVAL ACTION RECOMMENDED: <input checked="" type="checkbox"/> EMERGENCY <input type="checkbox"/> TIME-CRITICAL <input type="checkbox"/> NON-TIME-CRITICAL							
(Cite one or more of the conditions or factors from Section V. REMOVAL CRITERIA, as a basis for recommending that a removal action be conducted.)							
Yes	No	Unknown	Issue	Yes	No	Unknown	Issue
X			Exposure To Hazardous Substances Or Pollutants Or Contaminants		X		Actual Or A Potential For Contamination Of Drinking Water Supplies
X			Drums, Barrels Or Bulk Containers Present	X			High Levels of Contaminants Near-Surface Soils
X			Site Susceptible To Adverse Weather Conditions	X			Fire/Explosion Threat
X			Other Response Mechanism		X		Other Factors
COMMENT: Following the fire, the potentially responsible party (PRP) coordinated cleanup activities at the site under the supervision of MDNR. Because it appeared the PRP was responding appropriately to address threats to human health and the environment, no further Superfund response appears warranted. (Complete Recommended Removal Action Attachment and the Site Prioritization Information Summary Attachment for sites recommended for a Removal Action.							

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VI. SUPERFUND SITE SCREENING RECOMMENDATIONS (continued):

ADDITIONAL INTEGRATED ASSESSMENT RECOMMENDED

(Cite the appropriate criteria from Section Vas a basis for recommending that additional site evaluation be performed.)

Yes	No	Unknown	Issue	Yes	No	Unknown	Issue
			Ground Water Pathway Threat				Direct Exposure Pathway Threat
			Surface Water Pathway Threat				Air Pathway Threat
			Release Or Threat Of Release				A Facility Or Vessel
			Hazardous Substance, Pollutant, or Contaminant				Subject To Response Limitations
			Contaminants present in Significant Quantity And/Or Concentration				Exposure To Hazardous Substances Or Pollutants Or Contaminants
			Drums, Barrels Or Bulk Containers Present				High Levels Of Contaminants In Surface Soils
			Site Susceptible To Adverse Weather Conditions				Threat Of Fire Or Explosion
			Willing/Capable PRP Response				Referred To Another Program

COMMENT:

VII. ADDITIONAL INFORMATION OR COMMENTS

(NOTE: Complete Site Prioritization Information Summary Attachment for sites recommended for further Integrated Assessment work.)

EPA USE ONLY

VIII. DETERMINATION

SIGNATURE: _____
Name/Title/Office

DATE: